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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 81044309/202-0849 09/19/2003 Jae Doo Chung 10/605,285 **EXAMINER** 12/01/2004 28395 ALI, HYDER

BROOKS KUSHMAN P.C./FGTL 1000 TOWN CENTER 22ND FLOOR SOUTHFIELD, MI 48075-1238

ART UNIT PAPER NUMBER

3747

DATE MAILED: 12/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	
Office Action Summary	Application No.	Applicant(s)	
	10/605,285	CHUNG ET AL.	
	Examiner	Art Unit	
	HYDER ALI	3747	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may ply within the statutory minimum of t d will apply and will expire SIX (6) M te. cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	·		
, 	is action is non-final.		
3) Since this application is in condition for allow			
closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-23 is/are pending in the applicatio	n.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3,5,8-10,12,16-18,20 and 23</u> is/ard	e rejected.		
7)⊠ Claim(s) <u>4,6,7,11,13-15,19,21 and 22</u> is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examir	ner.		
10)⊠ The drawing(s) filed on <u>19 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre			
11) The oath or declaration is objected to by the E	Examiner. Note the attach	ned Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in ority documents have be au (PCT Rule 17.2(a)).	n Application No en received in this National Stage	
Attachment(s)	_		
1) Notice of References Cited (PTO-892)		w Summary (PTO-413) lo(s)/Mail Date	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/03) Paper No(s)/Mail Date 9/19/03. 		of Informal Patent Application (PTO-152)	

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DETAILED ACTION

Inventorship

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3,5,8-10,12,16-18,20 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Dosdall et al (US 5,117,681). Dosdall et al discloses a method for controlling an engine in a vehicle having a starter motor operatively connected to the engine, the method comprising: a controller 30 cuts off the flow of fuel to the engine; the controller begin an error measurement routine col. 4, lines 52-56; in step 37, correction

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factors are calculated col. 5, lines 37-39; smooth engine rotation obtained by externally driving the engine, such as with the starter motor with fuel cutoff col. 5, lines 4-6.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3,5,8-10,12,16-18,20 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Downs et al (US 6,453,864) in view of Dosdall et al (US 5,117,681) and Peters et al (US 6,425,365).

Downs et al discloses a method for controlling an engine in a vehicle having a motor operatively connected to the engine the method comprising: means for sensing the crankshaft rotational orientation is provided col. 4, lines 13-16; employing the motor to spin the engine after fuel to the engine is discontinued.

Downs et al does not disclose determination of the engine position sensor correction factor; determining when an engine shutdown is requested. However, Peters et al discloses determining when an engine shutdown is requested. Dosdall et al discloses determination of the engine position sensor correction factor. It would have been obvious to a person having ordinary skill in the art to modify Downs et al by

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employing engine shut down and correction factor determination features in order to

reduce or eliminate the position measurement inaccuracies.

Allowable Subject Matter

Claims 4,6,7,11,13-15, 19,21 and 22 are objected to as being dependent upon a

rejected base claim, but would be allowable if rewritten in independent form including all

of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. The reference by Boggs et al discloses controlled engine

shutdown for a hybrid electric vehicle.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to HYDER ALI whose telephone number is (571) 272-4836. The examiner can normally be

reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

HENRY YUEN can be reached on (571) 272-4856.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

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Tony M. Argenbright Primary Examiner

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